

nature

physicsportal

quick  
search

portal

nature

vol

page

advanced  
search

## naturejobs

- search jobs
- career info
- spotlight
- events

## nature

- home
- submit
- subscribe
- insights

## resources

- encyclopedia of astronomy & astrophysics
- encyclopedia of life sciences



© Nature  
Publishing  
Group  
2002

## Welcome to the physics portal

The *Nature* physics portal is a one-stop resource for physicists, providing highlights of the latest research in *Nature* and elsewhere.

Editor required for the *Nature* physics portal

## newinnature

The table of contents of this week's *Nature*, selected especially for physicists

## researchcollections

Browse *Nature*'s recent archive of physics research and comment collected by subfield

## researchhighlights

### Quantum phase change

Bose-Einstein condensate makes transition from superfluid to Mott insulator — and back again (*Nature*, 3 January 2002)



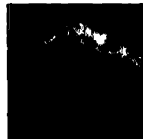
### Neutral-atom storage ring

One million cold atoms confined in a 2-cm ring by magnetic forces (*Phys. Rev. Lett.*, 7 December 2001)



### In brief: helium declares Universe open

Helium-3 abundance confirms eternal expansion of Universe. (*Nature*, 3 January 2002)



More highlights...

## lookingback...

Classic physics papers from *Nature*'s archive. Featuring this week: London's concept of superconductivity

## magazine

Stimulating and informative reading from *Nature*'s 'magazine' sections

## news

From *Nature*, 3 January 2002

Future funds in doubt as asteroid project wins short reprieve

Fate of Japan's sleeping satellite is in the lap of the gods

Standard-model violation 'a mistake', say physicists  
news feature: the physics of the trading floor

More news stories...

## searchjobs

naturejobs

physics



view full description

## problempage

When it's time for a coffee break or a rest from the screen, one of our teasers should keep you occupied for ten minutes — or longer!

## renaissancephysicist

Short, readable articles on everything but physics to keep you well rounded

• meetings  
• links  
• about  
the portal

## services

• e-mail  
• sign up  
• help  
• feedback  
• search

## comingsoon



September 2002

## sponsors



nature

physicsportal

quick  
search:☒ portal ☒ naturevol  page advanced  
search

## naturejobs

- search jobs
- career info
- spotlight
- events

## nature

- home
- submit
- subscribe
- insights

## resources

- encyclopedia of astronomy & astrophysics
- encyclopedia of life sciences



© Nature  
Publishing  
Group  
2001

## Welcome to the physics portal

The *Nature* physics portal is a one-stop resource for physicists, providing highlights of the latest research in *Nature* and elsewhere.

Editor required for the *Nature* physics portal

## newinnature

The table of contents of this week's *Nature*, selected especially for physicists

## researchcollections

Browse *Nature*'s recent archive of physics research and comment, collected by subfield

## researchhighlights

## news

## It's a Shor thing

Molecule executes Shor's quantum factoring algorithm (*Nature*, 20/27 December 2001)



## Insulators at the limit

Bulk behaviour in ultrathin films (*Phys. Rev. Lett.*, 7 December 2001)



## In brief: life arrives on Earth?

Biologically important organic compounds found in meteorites (*Nature*, 20/27 December 2001)



## In brief: balloon settles debate

New measurement of antiproton-proton ratio supports cosmic-ray model (*Phys. Rev. Lett.*, 10 December 2001)



More highlights...

## lookingback...

Classic physics papers from *Nature*'s archive  
Featuring this week: **The spin of the photon**

## magazine

Stimulating and informative reading from *Nature*'s 'magazine' sections

## problempage

When it's time for a coffee break or a rest from the screen, one of our teasers should keep you occupied for ten minutes — or longer!

## renaissancephysicist

Short, readable articles on everything but physics, to keep you well-rounded

## Information

- meetings
- links
- about the portal

## services

- e-alert
- sign up
- help
- feedback
- search

## comingsoon



September 2002

## supportedby



ACADEMIC  
PRESS

Veeco

Metrology Group

Digital  
Instruments

naturejobs physics



< view full description >

nature

physicsportal

quick  
search☒ portal ☐ naturevol  page advanced  
search

## naturejobs

- search jobs
- career info
- spotlight
- events

nature

- home
- submit
- subscribe
- insights

resources

- encyclopedia of astronomy & astrophysics
- encyclopedia of life sciences



© Nature  
Publishing  
Group  
2001

## Welcome to the physics portal

The *Nature* physics portal is a one-stop resource for physicists, providing highlights of the latest research in physics and elsewhere.

## newinnature

The table of contents of this week's *Nature*, selected especially for physicists

## researchcollections

Browse *Nature*'s recent archive of physics research and comment, collected by subfield

## researchhighlights

## Polaritons turn up the heat

Light amplification through exciton-photon quasiparticles at (almost) room temperature (*Nature*, 13 December 2001)



## Frequency feasibility

Quantum-cascade lasers could operate at terahertz frequencies (*App. Phys. Lett.*, 10 December 2001)



## In brief: glowing report

Cluster satellites fly through auroral fields (*Nature*, 13 December 2001)



## In brief: memories are made of...capacitors

Submicrometre capacitors make ferroelectric RAM a possibility (*App. Phys. Lett.*, 10 December 2001)



More highlights...

## lookingback...

Classic physics papers from *Nature*'s archive  
Featuring this week: The first transatlantic wireless telegraph

## magazine

Stimulating and informative reading from *Nature*'s 'magazine' sections

## news

From *Nature*, 13 December 2001

Nobel officials recoil from expenses offer

Jodrell Bank survives shake-up of UK astronomy

Partners' anger mounts over NASA plans for space station

Europe's Mars mission to pay out for Beagle lander

Anger spreads over White House plans for Smithsonian

Livermore lab director set to quit next year

More news stories...

## searchjobs

naturejobs physics



< view full description >

## information

- meetings
- links
- about the portal

## services

- e-alert
- sign up
- help
- feedback
- search

## comingsoon



September 2002

## supportedby



Veeco

Metrology Group



## problempage

When it's time for a coffee break or a rest from the screen, one of our teasers should keep you occupied for ten minutes — or longer!

## renaissancephysicist

Short, readable articles on everything but physics to keep you well-rounded

nature

physicsportal

quick  
search

portal



nature

vol

page

advanced  
search

## naturejobs

- search jobs
- career info
- spotlight
- events

nature

- home
- submit
- subscribe
- insights

resources

- encyclopedia of astronomy & astrophysics
- encyclopedia of life sciences



© Nature  
Publishing  
Group  
2001

## Welcome to the physics portal

The *Nature* physics portal is a one-stop resource for physicists, providing highlights of the latest research in *Nature* and elsewhere.

## newinnature

The table of contents of this week's *Nature*, selected especially for physicists

## researchcollections

Browse *Nature*'s recent archive of physics research and comment, collected by subfield

## researchhighlights

## news

## Microlens in motion

Direct image of a gravitational microlens  
(*Nature*, 6 December 2001)



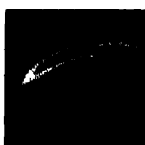
## Imaging with noise

A new microscope lets thermal fluctuations do the probing  
(*App. Phys. Lett.*, 3 December 2001)



## Electron spin doctors

Electron spin is tuned in a semiconductor heterostructure  
(*Nature*, 6 December 2001)



## A hidden reality?

Is quantum mechanics the end of the story?  
(*Proc. Natl. Acad. Sci.*, December 2001)

More highlights...

## lookingback...

Classic physics papers from *Nature*'s archive  
Featuring this week: Isotopes and protons

## magazine

Stimulating and informative reading from *Nature*'s 'magazine' sections

From *Nature*, 6 December 2001

NASA engages outside help for mission to Pluto

Rescuers of Europe's cultural heritage struggle for funding

Russia offers star prize in bid to boost space funds

White House praises NSF but warns of belt-tightening  
opinion: Welcome SciDev.Net

More news stories...

## searchjobs

naturejobs

physics



< view full description >

## Information

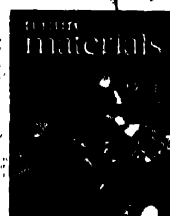
- meetings
- links
- about the portal

## services

- e-alert
- sign up

- feedback
- search

## comingsoon



September 2002

## supportedby



ACADEMIC  
PRESS

Veeco

Metrology Group

digital  
instruments

## problempage

When it's time for a coffee break or a rest from the screen, one of our teasers should keep you occupied for ten minutes — or longer!

## renaissancephysicist

Short, readable articles on everything but physics to keep you well-rounded

(Published under an arrangement with Nature)